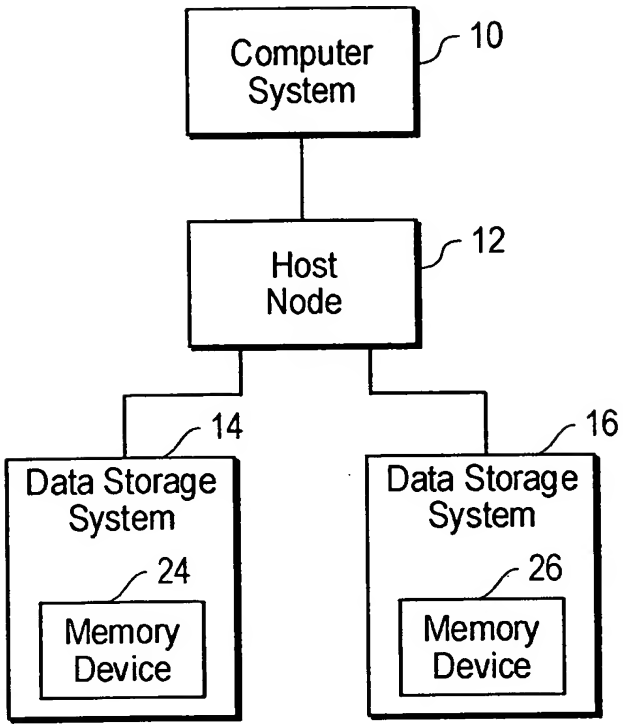
Computer System
10
Host Node
12
14
16
Data Storage System
Data Storage System
24
26
Memory Device
Memory Device

FIG. 1

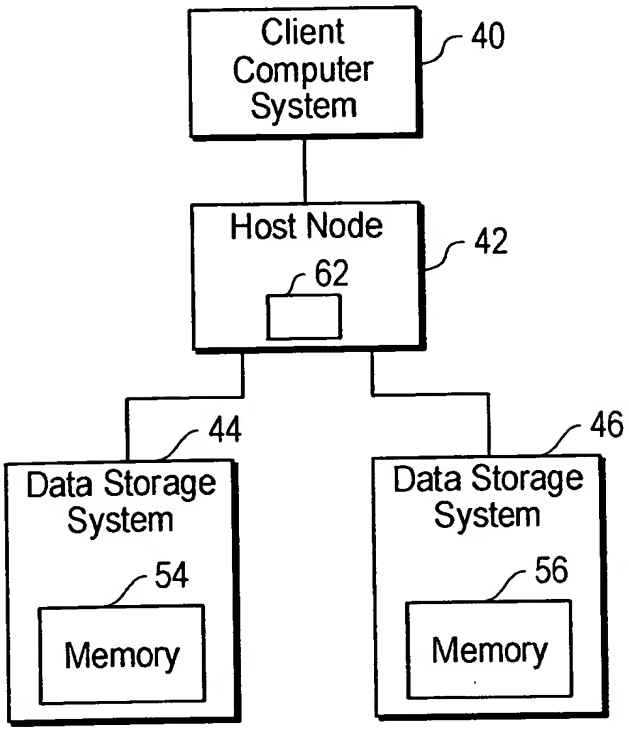

FIG. 2

n	Data Identification	Data Copy	Time Stamp
1	block 2	D_1	T_1
2	block 7	D_2	T_2
3	block 5	D_3	T_3
4	block 30	D_4	T_4
5	block 1	D_5	T_5
6	block 10	D_6	T_6

66

FIG. 3

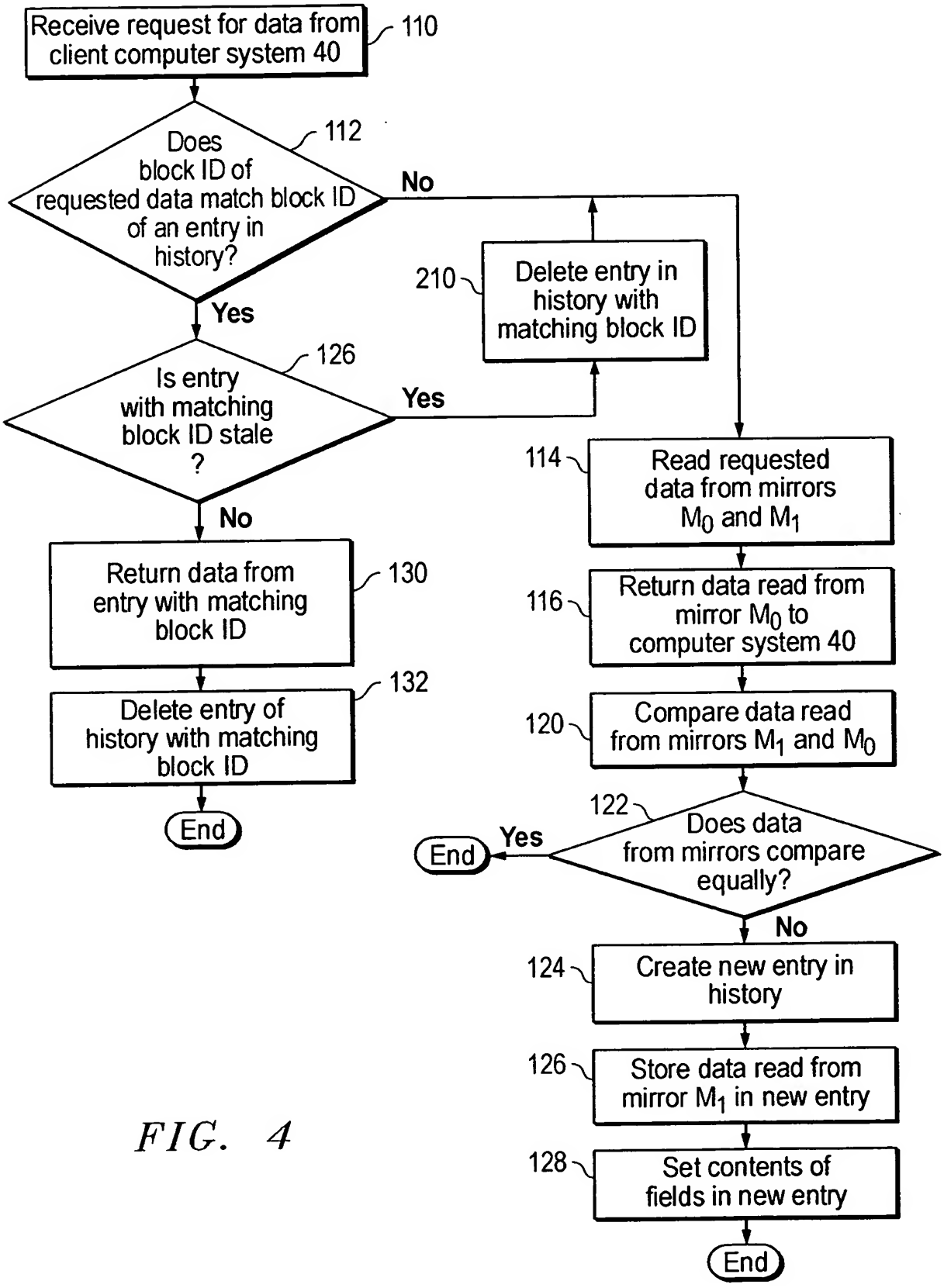
Receive request for data from client computer system 40
110
Does block ID of requested data match block ID of an entry in history?
112
No
Yes
Delete entry in history with matching block ID
210
Is entry with matching block ID stale ?
126
Yes
No
Return data from entry with matching block ID
130
Delete entry of history with matching block ID
132
End
Read requested data from mirrors M_0 and M_1
114
Return data read from mirror M_0 to computer system 40
116
Compare data read from mirrors M_1 and M_0
120
Does data from mirrors compare equally?
122
Yes
End
No
Create new entry in history
124
Store data read from mirror M_1 in new entry
126
Set contents of fields in new entry
128
End

FIG. 4